

In the Specification:

Please replace the paragraph beginning at page 5, line 9 with the following rewritten paragraph:

--Figures 6a-c is an alignment of the nucleotide sequence of SAHH of the invention (SEQ ID NO:1) with the wild type sequence (SEQ ID NO:6).--

Please replace the paragraph beginning at page 7, line 19 with the following rewritten paragraph:

Other uses of recombinant SAHH include a therapeutic cancer gene for combination with SAH analogs, which would act as enzyme activated prodrugs with toxicity provided by toxic adenosine analogs released by SAHH. Such adenosine analogs would not be toxic when conjugated to ~~Hey~~ HCY as an SAH analog. Analogs of homocysteine could also be used, such as selenohomocysteine conjugated with adenosine or an adenosine analog, which in combination with SAHH and rMETase gene therapy would release the very toxic hydrogen selenol as well as the toxic adenosine analog in cancer cells transduced with the two genes.

Please replace the paragraph beginning at page 11, line 12 with the following rewritten paragraph:

--The invention provides an isolated and recombinant nucleic acid encoding SAHH comprising SEQ ID NO:1, as well as the corresponding SAHH amino acid sequence (SEQ ID NO:7). In another aspect, the SAHH gene is modified to encode a modified His•SAHH, which has an extra six histidines, in the N-terminal of the SAHH gene.--

Please replace the paragraph beginning at page 11, line 12 with the following rewritten paragraph:

--The genomic sequence encoding SAHH in *T. vaginalis* (Bagnara *et al.*, 1996) was amplified by PCR using oligonucleotide primers containing engineered restriction enzyme sites for *Bam*HI and *Pst*I in the upstream (sense) and downstream (antisense) primers, respectively (restriction sites are underlined in both cases): upstream primer,

5'TTTTGGATCCGCTTGCAAATCACCTGCTGGTGÇ 3' (SEQ ID NO:2); downstream primer, 3' CTGCTATCGAGGGGGACGTCTTTT 5' (SEQ ID NO:3). The recombinant expression vector pQE-30 was transformed into the *Escherichia coli* host strain M15[pREP4] (Villarejo and Zabin, 1974) (QIAGEN).--

Please replace the paragraph beginning at page 15, line 18 with the following rewritten paragraph:

--To construct the expression vector, the SAHH gene was modified by PCR. The 5' primer is CATCATCATCATCATCACGCTTGCAAATCACCTACTGG (SEQ ID NO:4)

6 x His•Tag

and the 3' primer is ATGCATGGATCCTTAATAACGGTAAGCATC (SEQ ID NO:5).

BamH I

The pTrc 99A(Pharmacia Biotech) was employed as a expression vector. The modified His•SAHH which has extra six histidine codes in N-terminal of SAHH gene was inserted into Nco I-blunt and BamH I site. *E. coli* JM109 was employed as the host strain for His•SAHH expression.--